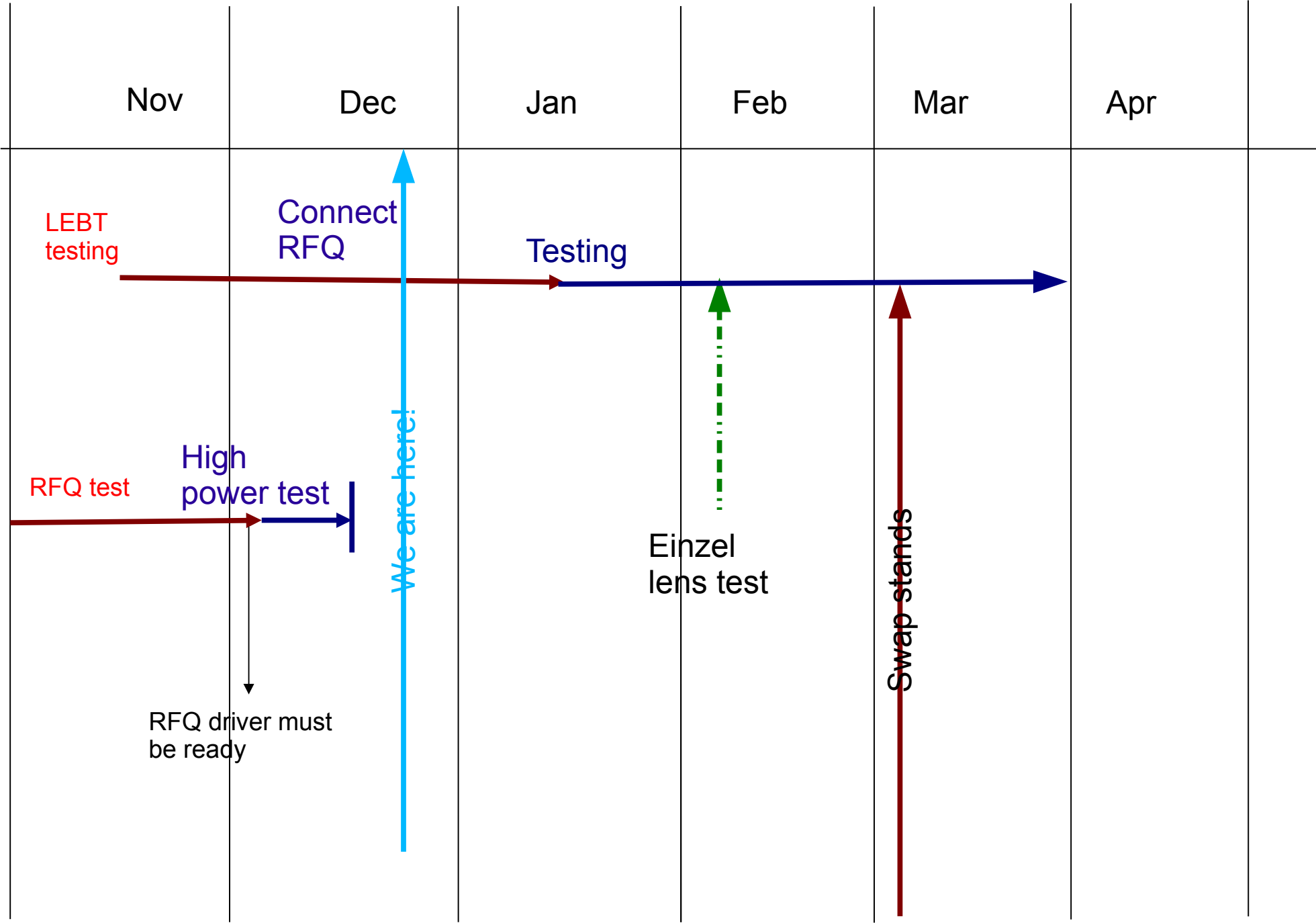


Pre-injector Upgrade Updates (21 Dec 2011 – 04 Jan 2012)

C.Y. Tan
04 Jan 2012



Nov

Dec

Jan

Feb

Mar

Apr

LEBT
testing

Connect
RFQ

Testing

RFQ test

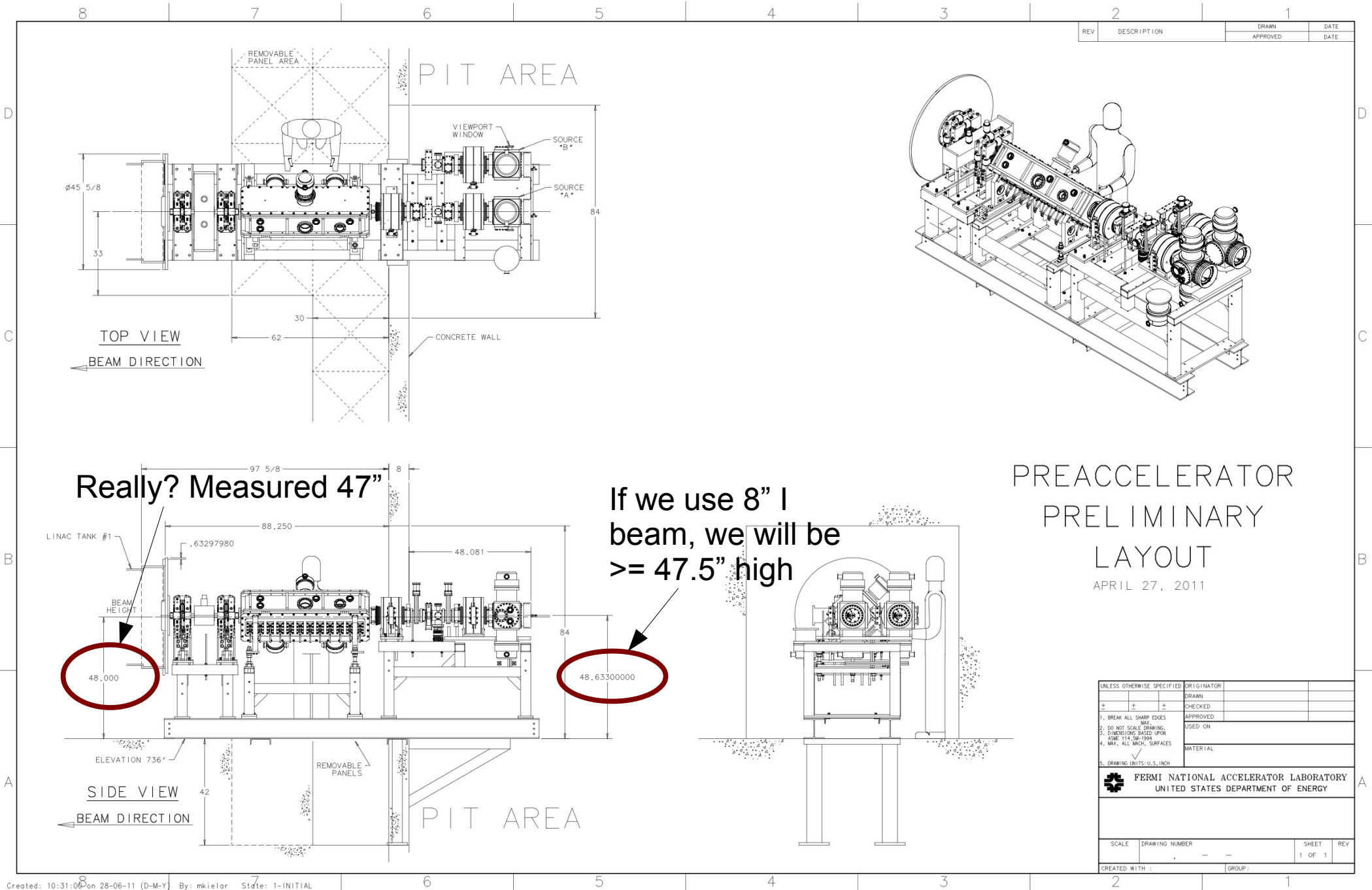
High
power test

RFQ driver must
be ready

We are here!

Einzel
lens test

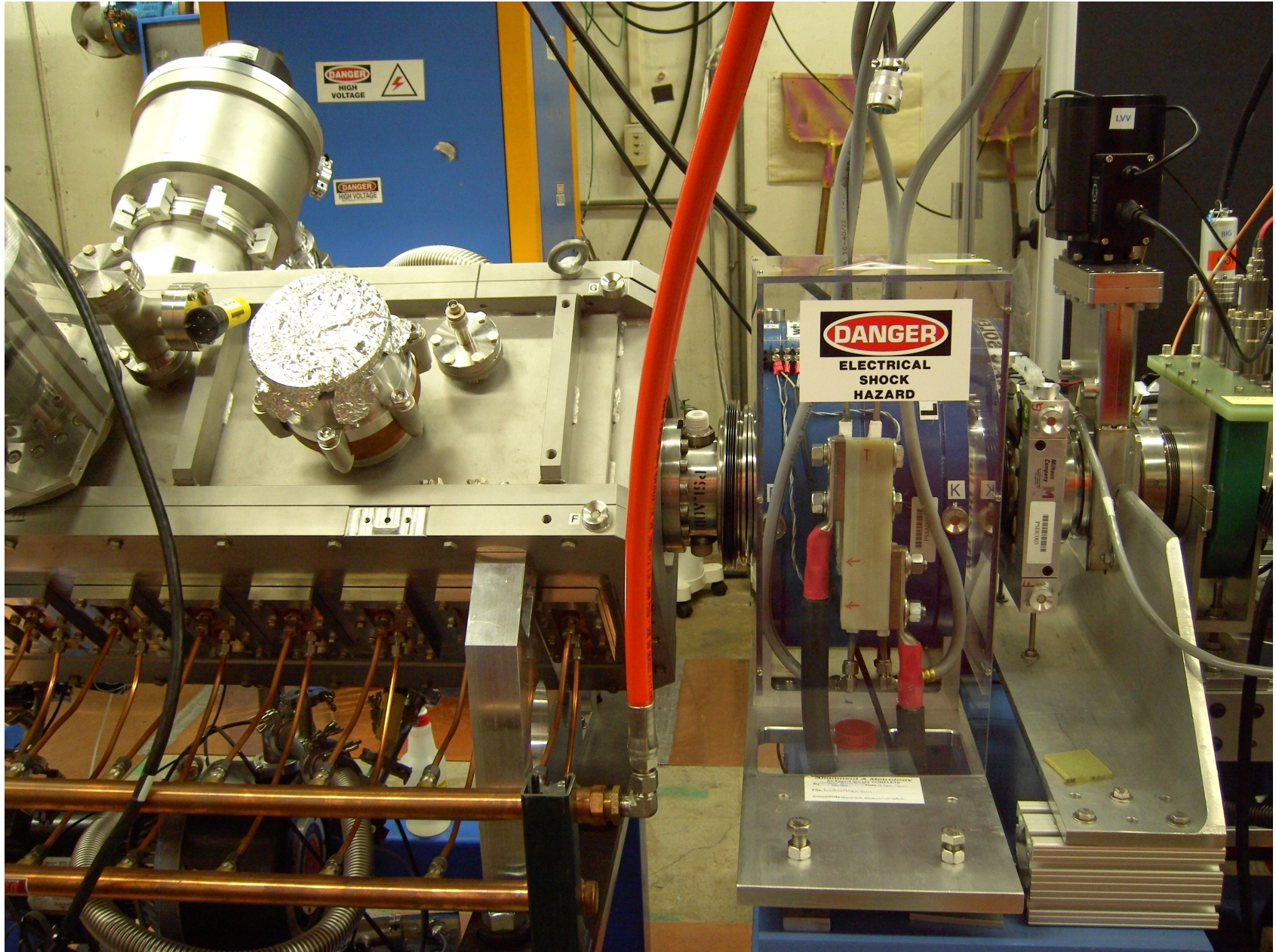
Swap stands



Latest

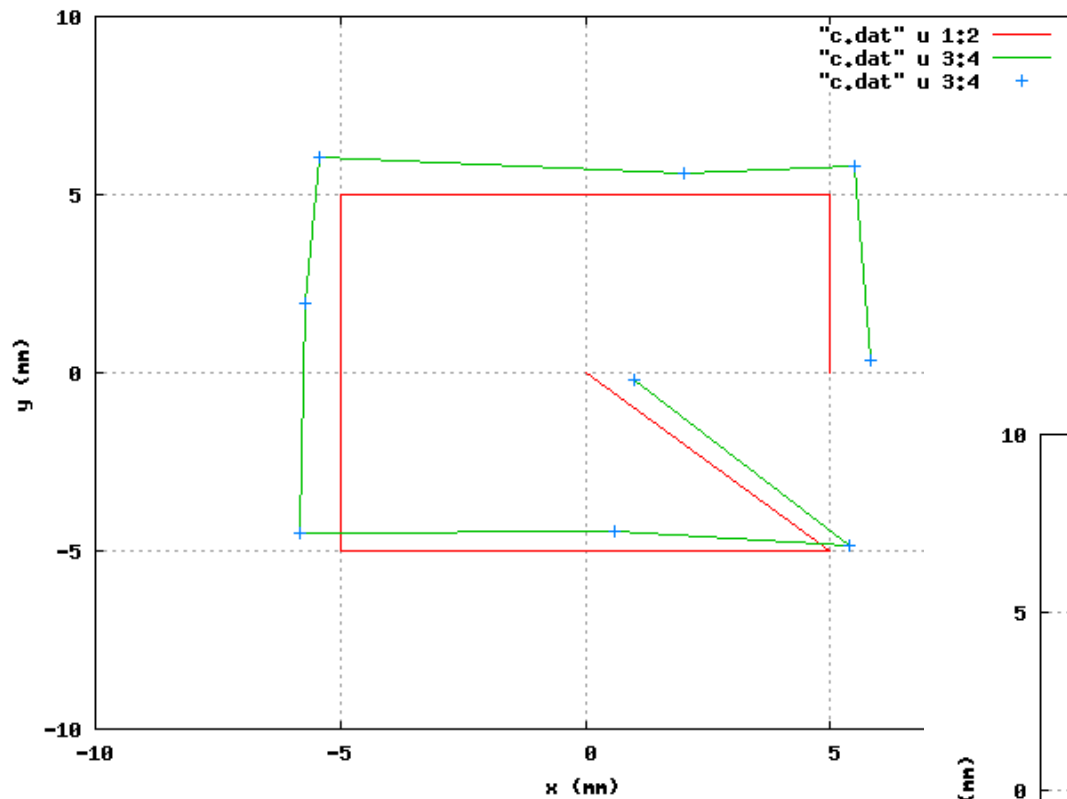
- LEBT Model complete (to be improved)
 - Survey of RFQ (03 Jan)
 - Connect to RFQ (04 Jan)
 - Re-survey line (05 Jan)
- Source conditioned overnight (28-29 Dec) @ 20 kV. Conditioning continues ...Still having problems with sparking at 30 kV.
- Einzel lens switches being tested.
- RFQ pushed next to LEBT (04 Jan). Waiting for surveyors.

RFQ and Einzel Lens next to LEBT

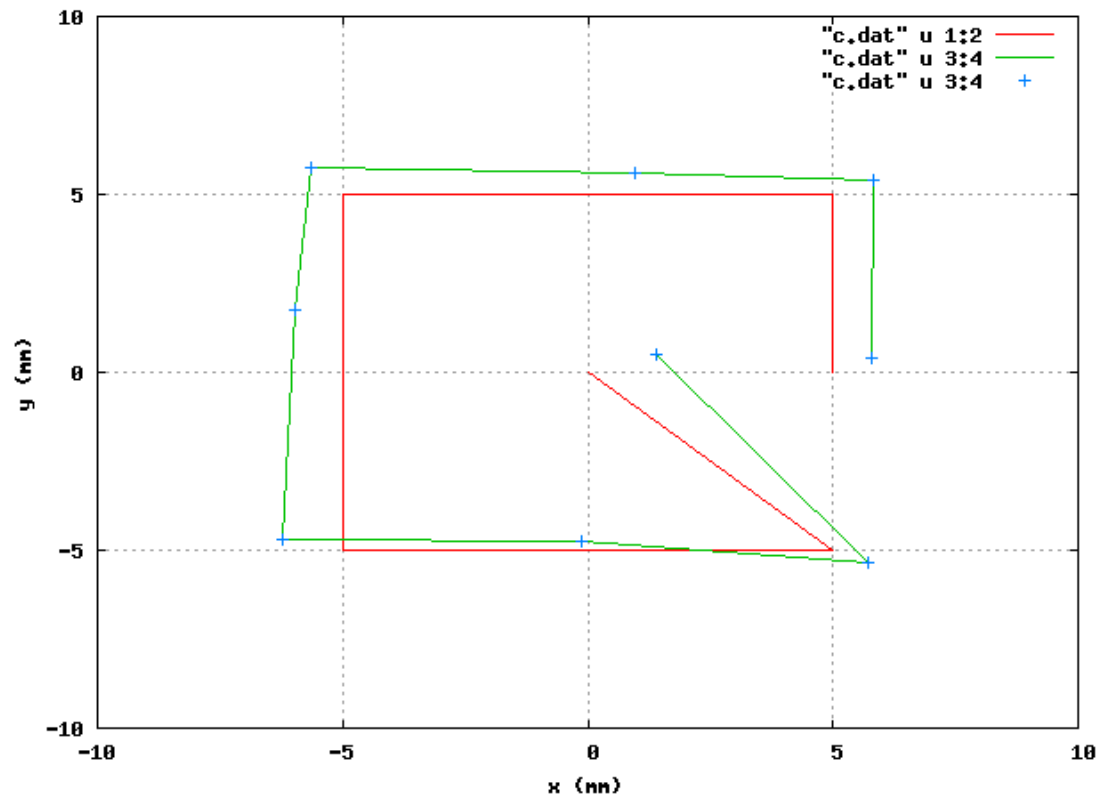


Painting the Strike Zone

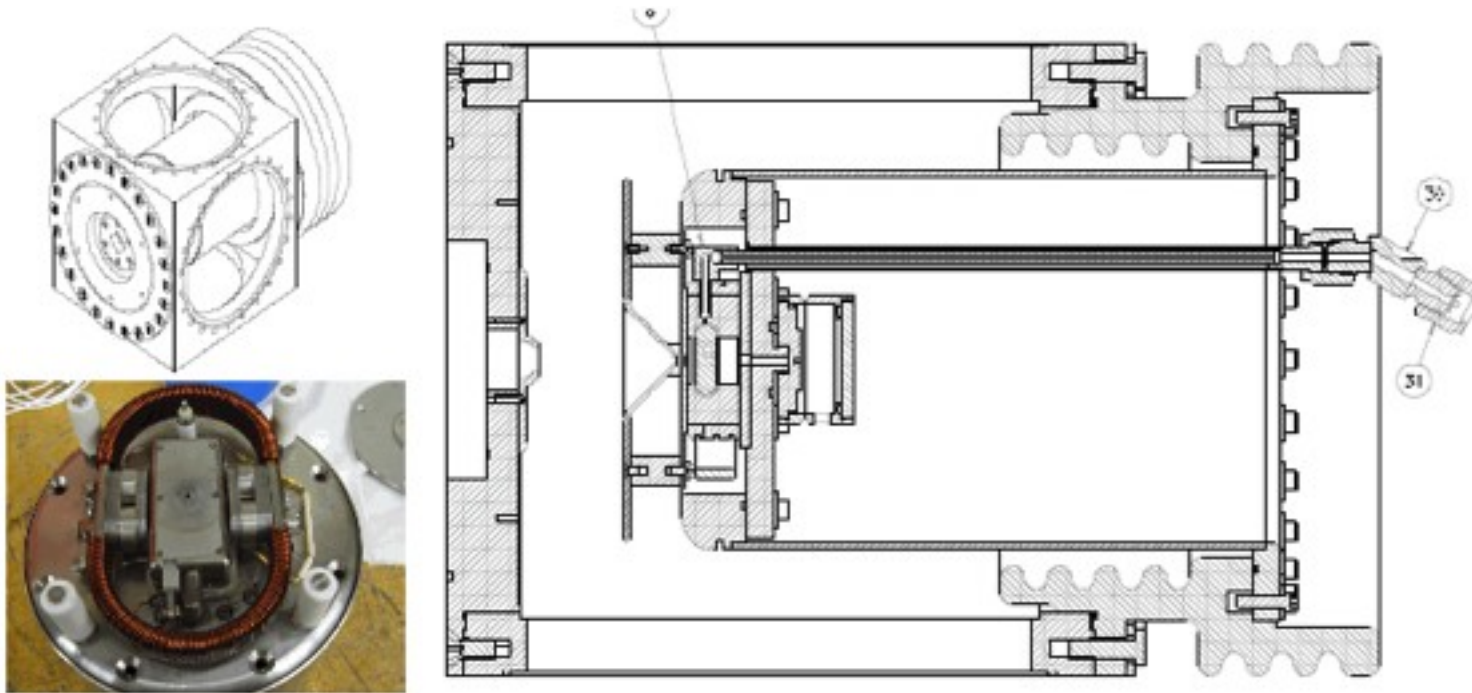
Painting the corners



Painting the corners

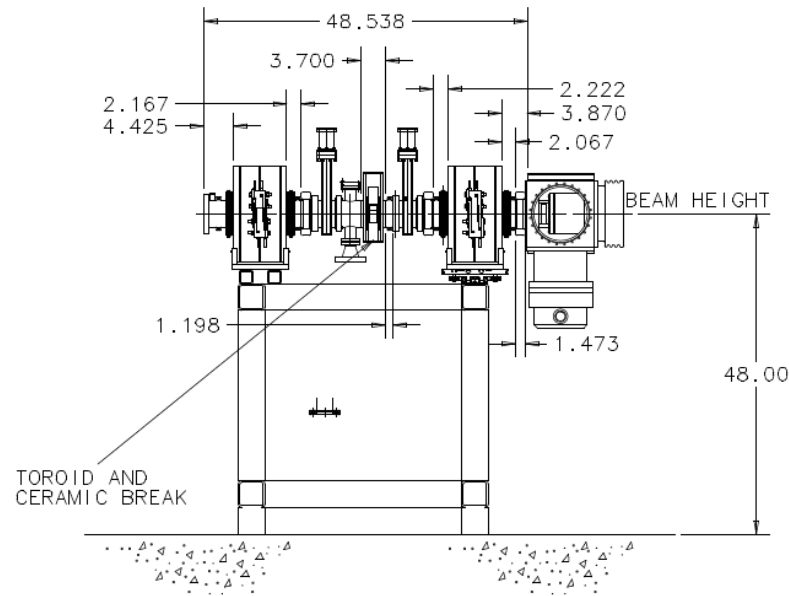


Source Status



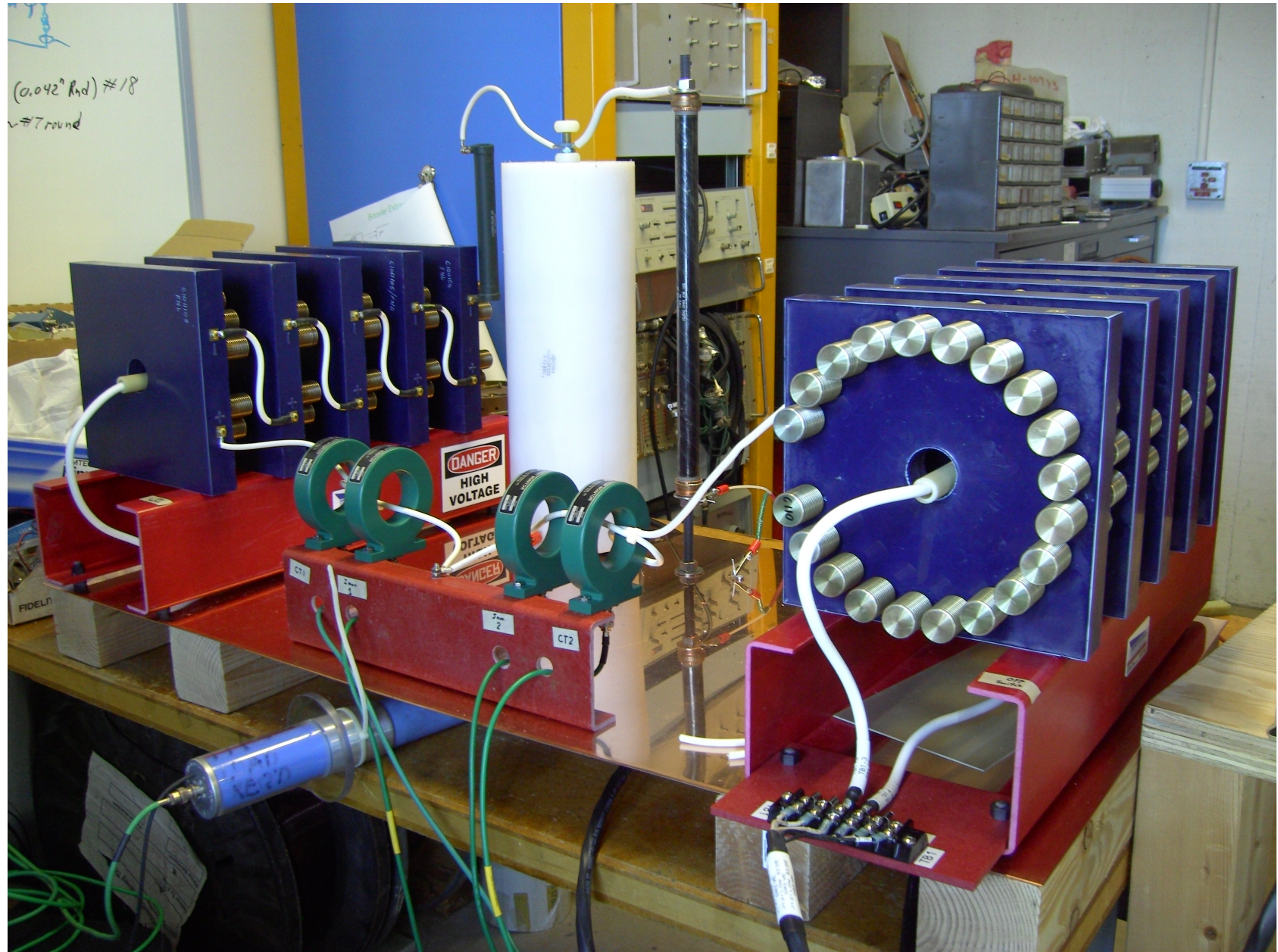
Device	Status	Comments
Source	Tuning continues ...	

LEBT Status

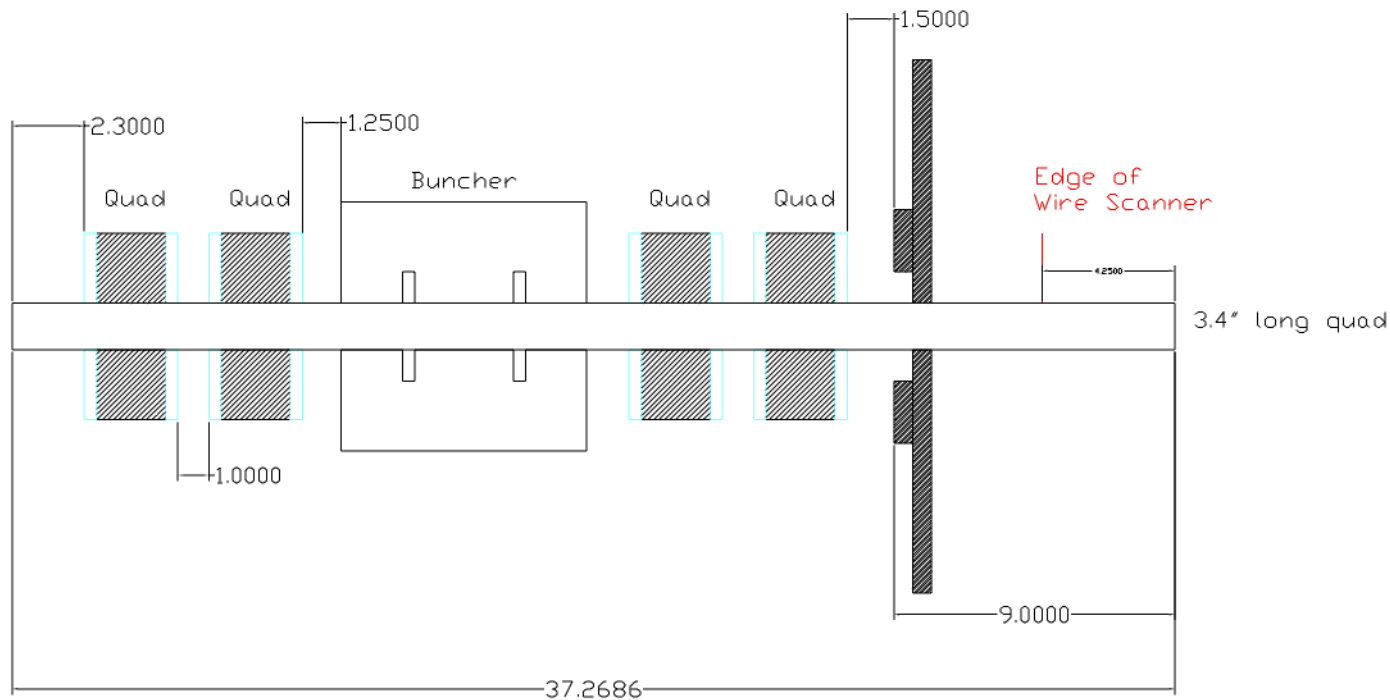


Device	Status	Comments
New slide	being designed	Expect to have by end of Feb 2012
Chopper box	Waiting for final approval	
Solid state switches	Test setup being built	

Einzel Lens Switches Test Setup



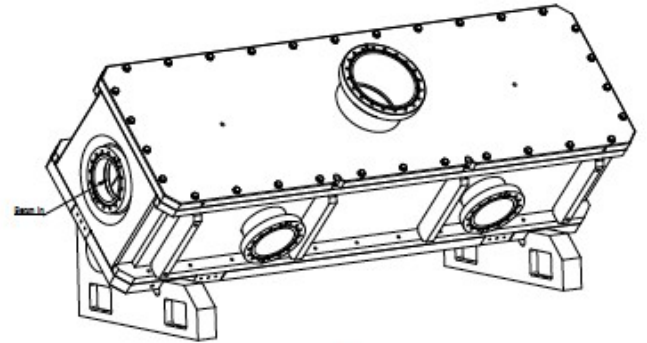
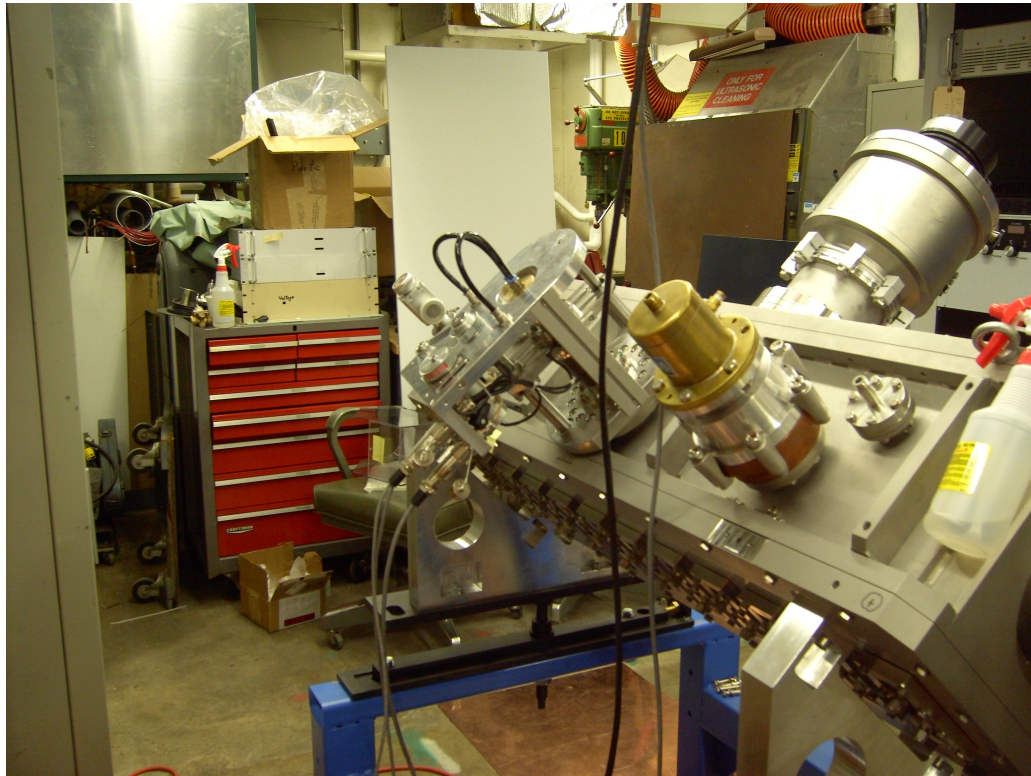
MEBT Status



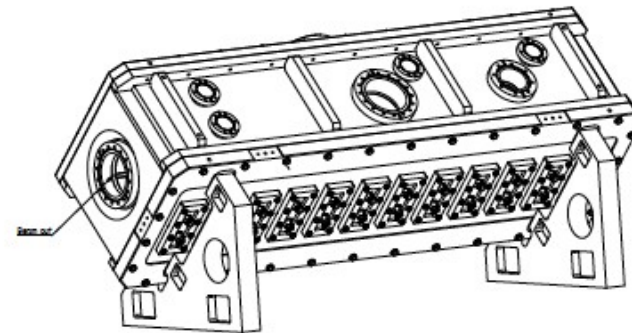
Device	Status	Comments
MEBT Stand	Being designed	
Quad doublets	Being paired and tested	Adjustments being redone. 1 st pair still being measured. (03 Jan)

Are we buying PA for buncher?
Ion pump, controller gauging status?

RFQ Status



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Device	Status	Comments
RFQ	surveyed	01/03/12
PLL work	Continues ...	

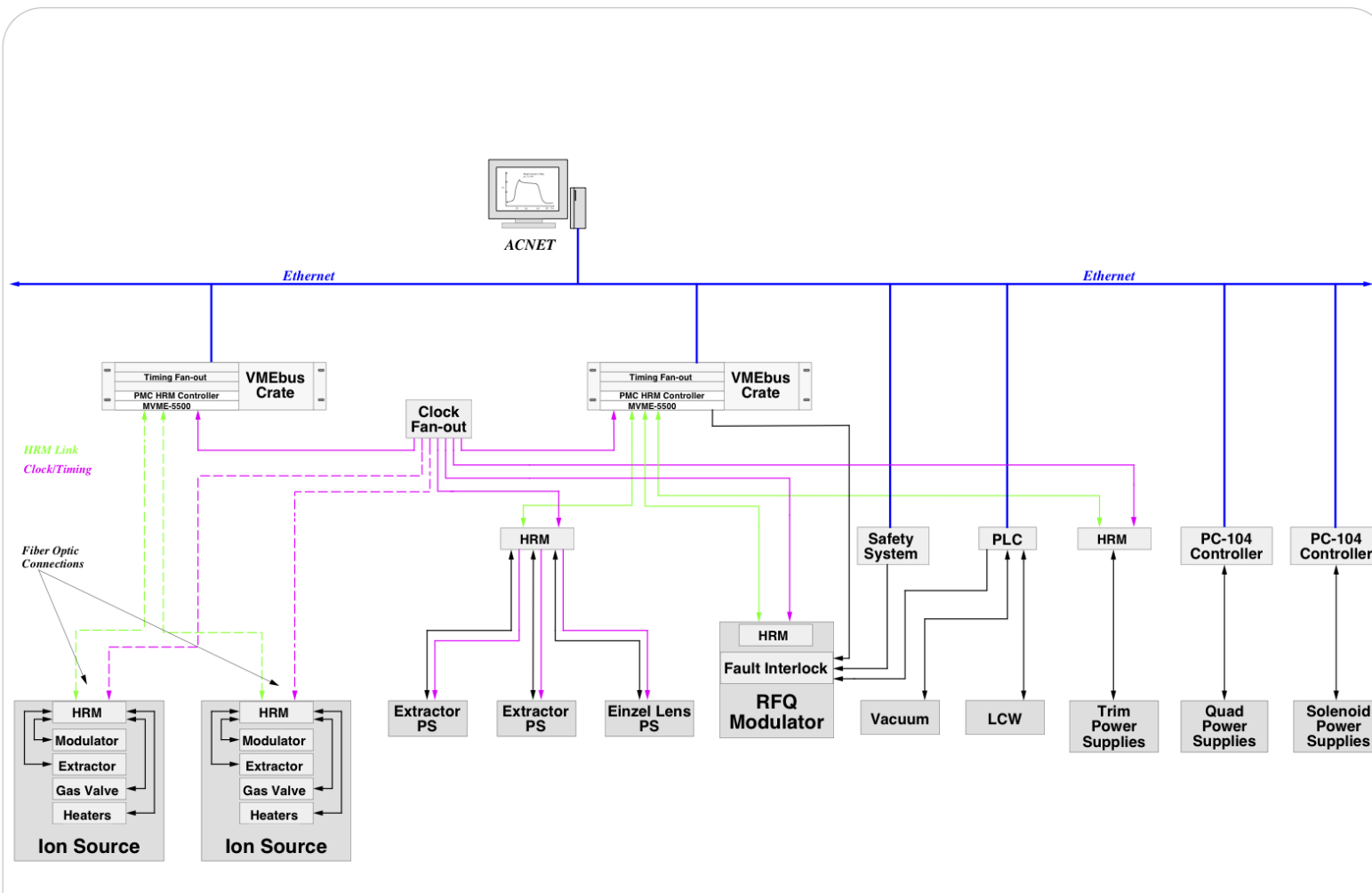
Test area, test stand and instrumentation

Device	Status	Comments
emittance probes can	Assembled and leak tested	12/28/11
TOF	3 BPM shells	We have them.
Faraday Cup	Needs zero length adapter	Have copper seals and zero length adapter ordered

Emittance Probes



Controls



Linac RFQ Upgrade Controls Block Diagram

Controls

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Safety